



Climate Change and Livable Frederick

**A Discussion on Urgency and the
Financial Impact of Not Acting**

A Sense of Urgency is Important

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Study: Frederick climate to feel like Mississippi in 2080

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We have 12 years to limit climate change catastrophe, warns UN

Urgent changes needed to cut risk of extreme heat, drought, floods and poverty, says IPCC

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By JASON SILVERSTEIN / CBS NEWS / November 24, 2018, 4:55 PM

Mass deaths and mayhem: National Climate Assessment's most shocking warnings



18 Key Message #1

From the Fourth National Climate Assessment, Vol II (Chapter 18, Northeast)

Changing Seasons Affect Rural Ecosystems, Environments, and Economies

The seasonality of the Northeast is central to the region's sense of place and is an important driver of rural economies. Less distinct seasons with milder winter and earlier spring conditions are already altering ecosystems and environments in ways that adversely impact **tourism, farming**, and forestry. The region's rural **industries and livelihoods are at risk** from further changes to forests, wildlife, snowpack, and streamflow.



18 Key Message #4

From the Fourth National Climate Assessment, Vol II (Chapter 18, Northeast)

Threats to Human Health

Changing climate threatens the health and well-being of people in the Northeast through more extreme weather, warmer temperatures, degradation of air and water quality, and sea level rise. These environmental changes are expected to lead to **health-related impacts and costs, including additional deaths, emergency room visits and hospitalizations**, and a lower quality of life. Health impacts are expected to vary by location, age, current health, and other characteristics of individuals and communities.



Vector-Borne Diseases: Mosquitos

- Example: Pittsburgh's mosquito season is growing.

81
DAYS
1980-1989



111
DAYS
2006-2015



18 Key Message #5

From the Fourth National Climate Assessment, Vol II (Chapter 18, Northeast)

Adaptation to Climate Change Is Underway

Communities in the Northeast are proactively planning and implementing actions to reduce risks posed by climate change. Using decision support tools to develop and apply adaptation strategies informs both the value of adopting solutions and the remaining challenges. Experience since the last assessment provides a foundation to advance future adaptation efforts.



Livable Frederick is our key planning framework for the next two decades.

Topics for further discussion

- Urgency
- Agriculture and Tourism
- Health Impacts
- Financial Impacts (May 2018 Flood Discussion)

